

DIGITAL RADIO WAVE COMMUNICATION EQUIPMENT

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Abstract

PURPOSE: To prevent the increase of processing delay time owing to data interleaving and to prevent error diffusion by changing-over a transmission frequency in terms of a pseudo random number at every frame consisting of plural symbols so as to transmit a digital signal between transmitting and receiving devices.

CONSTITUTION: Transmission data is converted into a symbol group by an input circuit 7, delimited at every prescribed number of symbol in a delimitting circuit 6 and transmitted to a succeeding stage after repetition is executed R-number times by a repeating circuit 5. The output of a frame constituting circuit 4 is converted into a signal on carrier wave by a modulating circuit 3 and transmitted to an opposite machine in the air with a transmitting circuit 2 and an antenna 1. At a reception side, digital data demodulated with a receiving circuit 11 and a demodulating circuit 12 is synchronized by a synchronizing circuit 19. The storage circuit 14 of a judging circuit 16 stores respective kinds of reception demodulating data with the R-number frames as one group. A majority deciding circuit 15 picks-up the symbol at a corresponding position from respective kinds of R-number frame reception demodulating data which are stored in the circuit 14, executes a majority decision concerning the coincidence of R-number symbols and obtains the effective output.

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